

FAYNGOL'D, S.I., kand.tekhn.nauk; KORV, M.I., kand.tekhn.nauk; TOMSON, T.V.

Sulfonation of alkyl aromatic hydrocarbons. Masl.-zhir.prom. 29
no.9:23-26 S '63. (MIRA 16:10)

1. Institut khimii AN Estonskoy SSR.

HOKU, M. Y.

polymerization and then fragmentation.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825010016-8"

KORV, M. Yu.

USSR /Chemical Technology. Chemical Products
and Their Application

I-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31848

Author : Fayngol'ts S.I., Korv M. Yu.

Title : Vapor-Phase Purification of Shale Gasoline

Orig Pub: Sb.: Goryuchiye slantsy. Khimiya i tekhnologiya,
No 2, Tallin, Est. gos. izd-vo, 1956, 155-167

Abstract: As a result of purification of crude dephenolated shale gasoline in the presence of catalysts: shale ash; dolomite, previously heated at 600 and 900°; H_3PO_4 deposited on pumice; iron ore, from deposits in the Estonian SSR and the Leningrad Oblast', reduced at a temperature of 400, 450 and 500°, in a current of hydrogen or city gas; a stable gasoline

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has been obtained which has a higher octane rating than initial gasoline. However, a decrease in the S content, to 0.1%, results in a decrease of the yield of gasoline by 6-7%. The most beneficial results are obtained, by vapor-phase purification, on using $ZnCl_2$ as catalyst, which produces 6.4% of a diesel fraction and 5.2% of a residue boiling above 300° , which serves as a raw material for the production of lubricating oils. Changes in the groupwise composition, as a result of vapor-phase purification, are slight: neutral oxygen-containing compounds are practically completely removed, and the olefins are removed in part. As concerns economic indices the process

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Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31848

has no advantages over the sulfuric acid process, since it results in no substantial yield of lubricating oils.

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obtained.

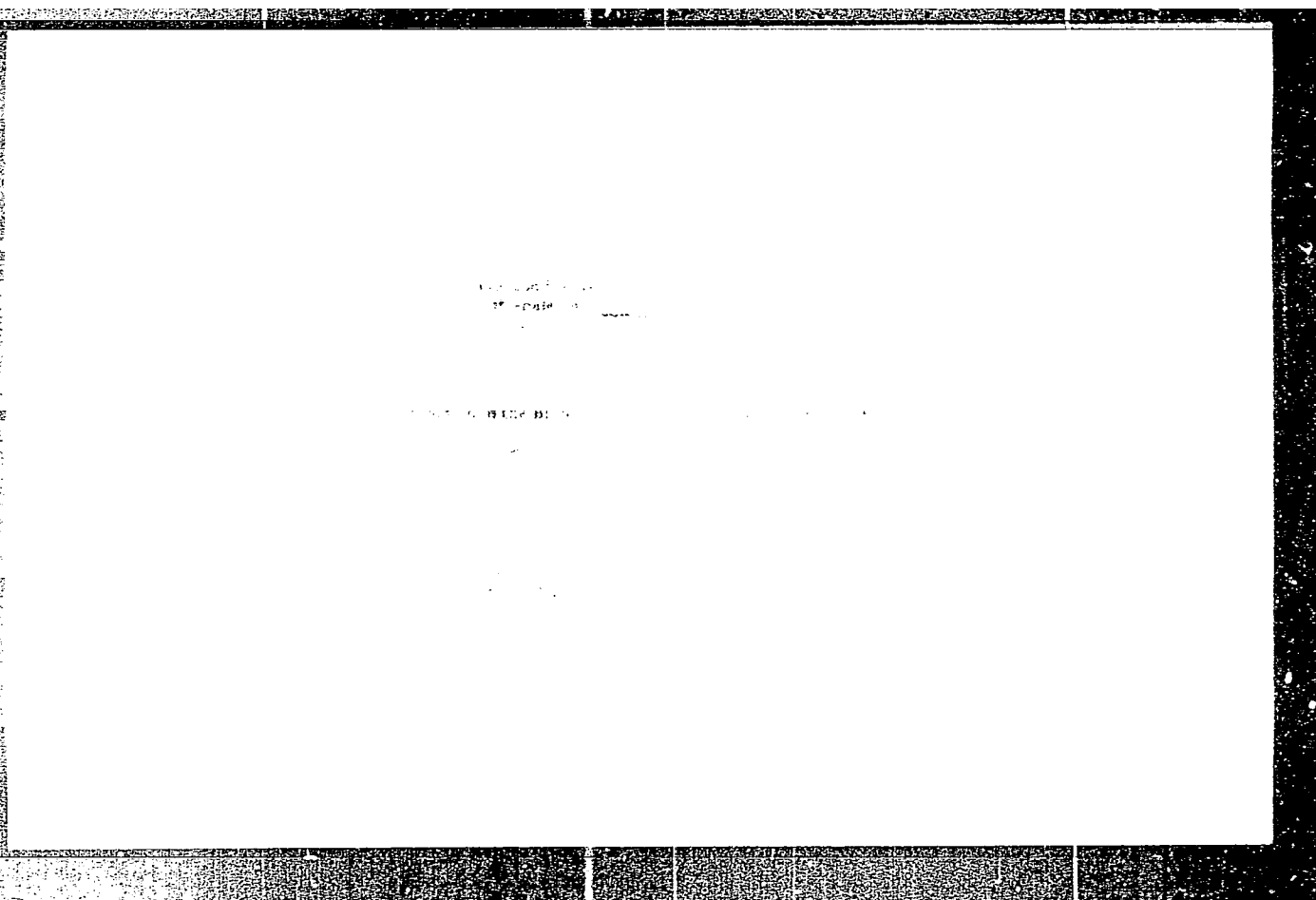
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CIA-RDP86-00513R000825010016-8"

KORV, M. YU. Doc Cand Tech Sci -- (diss) "The catalytic treatment of shale gasoline." Tallin, 1957. 20 pp with graphs 20 cm. (Academy of Sciences ~~USSR~~ ^{Department} Section of Tech and Phys-Math Sciences), 110 copies
(KL, 21-57, 102)

-57-



KRISHTAL, M.A.; DAVYDOV, Yu.I.; KORVACHEV, V.D.

Local spectral method of the quantitative determination of carbon
in steel. Zav. lab. 30 no.8:950-952 '64. (MIRA 18:3)

1. Tul'skiy mekhanicheskiy institut.

KORVAS, Z.

Preparation of programs according to the method of the differential analyzer. p. 273.
(STROJE NA ZPRACOVANI INFORMACI, Vol. 4, 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

KORVASOVA, K.

Iteration process for computing the characteristic value of matrices on punched cards.

p. 279 (STROJE ZPRACOVANI INFORMACI) Vol. 5, 1957,
Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,
March 1958

Korvasová, Květa; and Svoboda, Antonín. Determining the complex roots of algebraic equations on punched-card computing machines. *Stroje na Zpracování Informací* 3 (1955), 129-138 (1956). (Czech. Russian and English summaries) 2

A method of approximate evaluation of real and complex roots of algebraic equations of n th order with real coefficients is discussed. It consists of computing on punched-card computing machines the values of the equation at all points of a fixed network, in the Gauss complex plane. A polar grid is suitable for this purpose. This is followed by interpolation for zeros of the function. The method is advantageous for $n \leq 10$.

V. Vand (University Park, Pa.)

KORVASOVA, Kveta

Note on the experiment of mechanical translation on the computer
SAPO. Streje na zprac inf 8:205-207 '62.

1. Research Institute of Mathematical Machines, Prague.

KORVASOVA, Kveta; PALEK, Bohumil

The problem of the searching in automatic dictionary. Stroj
na zprac inf 9:151-168. '63.

1. Research Institute of Mathematical Machines, Prague.

KORVASOVA, Kveta

Algorithm of a program for mechanical syntactic analysis of the source language. Stroj na zprac inf 10:231-239 '64.

1. Research Institute of Mathematical Machines, Prague.

L 15426-66 T/EMP(1) LJP(c) BB/GG
ACC NR: AT6029406 SOURCE CODE: CZ/2503/66/000/012/0099/0106

AUTHOR: Korvasova, Kveta

29
B+1

ORG: Research Institute of Mathematical Machines, Prague

TITLE: Mechanical analysis of source language

SOURCE: Ceskoslovenska akademie ved. Vyzkumny ustav matematickych stroju.
Stroje na zpracovani informaci, no. 12, 1966, 99-106

TOPIC TAGS: linguistics, algorithm, /Epos computer

ABSTRACT: The author describes the technique used in the process of ¹⁶⁶mechanical translation from English into Czech on the Epos computer. The algorithm which helps to translate words, groups of words, lexical homonyms, and colloquialisms is described. The terms used are described and the grammatical characteristic of each is given in detail. The form of the dictionary for colloquialisms and the program for searching in the dictionary are discussed. The author adds that the definitions of various kinds of multiple correspondents described in his article can

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ACC NR: AT6029406

be translated by a computer and were used on the Epos computer to translate a short text from English into Czech. Once the Epos computer is fully equipped, the restriction on the amount of words will no longer be necessary. Orig. art. has: 3 figures. [GC]

SUB CODE: 05, 09/ SUBM DATE: 20Feb64/ ORIG REF: 001/ SOV REF: 002/
OTH REF: 002/

Card 2/2

KORVAT, A.I.

A new nuclear stain. Biul. eksp. biol. i med. *4* no.8:118-119
Ag '62. (MIRA 17:11)

1. Iz kafedry gistologii i embriologii (zav. - dotsent K.K.
Sergeyev) Aktyubinskogo meditsinskogo instituta. Predstavlena
deystvitel'nym chlenom AMN SSSR V.V. Parinym.

KORVATH, EVA.

KOVACS, Kalman; BACHRACH, Deneš; JOKOBOVITS, Antal; KORVATH, Eva;
KORTASSY, Bela

Effect of thirst on the hypothalamo-pituitary system in rats.
Kiserletes orvostud. 6 no.3:202-209 May 54.

(PITUITARY GLAND, physiology,

eff. of thirst on hypothalamo-pituitary system in rats)

(HYPOTHALAMUS, physiology,

eff. of thirst on hypothalamo-pituitary system in rats)

(THIRST, effects,

on hypothalamo-pituitary system in rats)

KORVATH, Eva;
KOVACS, Kalman; BACHERACH, Denes; JAKOBOVITS, Antal; KORVATH, Eva;
KORPASSY, Bela

The relation between anterior hypothalamic-postpituitary and
anterior pituitary-adrenocortical system. Kiserletes orvostud.
6 no.4:306-312 July 54.

1. Szegedi Orvostudományi Egyetem Kóborlati és Kórszövettani
Intézete.

(HYPOTHALAMUS, physiol.

supraoptic & paraventric. nuclei, eff. of formaldehyde
& water load in adrenalectomized rats)

(PITUITARY GLAND, POSTERIOR, physiol.

eff. of formaldehyde & water load in adrenalectomized rats)

(FORMALDEHYDE, eff.

on supraoptic & paraventric. nuclei & posterior pituitary
in adrenalectomized rats)

(ADRENAL GLANDS, eff. of excis.

on supraoptic & paraventric. nuclei & posterior pituitary
after water load in rats)

KORVATH, G.

CSALAY, L.; KORVATH, G.; LUDANY, Gy.

New studies on adrenaline-histamine antagonism. Acta physiol.
hung. Suppl. no.6:19-20 1954.

1. Pathophysiologisches Institut der Medizinischen Universität,
Budapest.

(HISTAMINE, physiol.
epinephrine-histamine antag.)
(EPINEPHRINE, physiol.
epinephrine-histamine antag.)

KORVATH, S.

IVANOVICS, G.; KORVATH, S.; SZOLLOSY, E.

The influenza virus adsorbing capacity of the vascular endothelium of various mammals. Acta microb. hung. 2 no.1-2:121-129 1954.

1. Institute of Microbiology, University Medical School, Szeged.
(INFLUENZA VIRUSES
adsorp. by vasc. endothelium)
(BLOOD VESSELS, physiol.
endothelium, adsorp. of influenza virus)

KORVATOVSKAYA, M.K. Cand. Agricult. Sci.

Dissertation: "System of Fertilizers in the Seven-Field Rotation of Flax on the Sod-Podjolic Soils of the Left-Bank Area of the Gor'kiy Oblast."
All-Union Sci Res Inst of Fertilizers, Agricultural Engineering and Soil Science imeni K.K. Gedroyets, 8 Apr 47.

SO: Vechernyaya Moskva, Apr, 1947 (Project #17836)

1. KORVATOVSKAYA, M. K.
2. USSR (600)
-
4. Lupine - Gor'kiy Province
-
7. Cultivation of perennial lupine in Gor'kiy Province, Sov. agron., 11,
no. 4, 1953.
-
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-
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9. Monthly List of Russian Accessions, Library of Congress, _____ April _____ 1953, Uncl.

KORVATSKAYA, O. M.

1956 / *Human and Animal Physiology (Normal and Pathological)*.
Moscow: Svyaz.

Author : Prof. Dr. - Med. Sc., Dr. Sc., Dr. Sc. 60739

Editor : Prof. Dr. - Med. Sc., Dr. Sc., Dr. Sc. 60739

Translator : Korvatskaya, O. M.

Title : The Changes of Carbohydrate and Oxygen Exchange in the Brain in *O₂* Insufficiency

Orig. Pub. : *Ukr. exp. med.*, 1957, No 222, 572-585

Abstract : To produce an oxygen deficiency, a anisomycin forming agent (anisomycin) was injected in the following doses: into the brain intravenously 15 - 30 mg/kg, into the subcutaneous space 100 - 200 mg/kg, and into the brain intravenously 50 - 100 mg/kg. The blood samples were drawn from the artery and the upper longitudinal brain sinus according to the method of E. S. Izrael. The rate of blood flow, determined

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with the aid of 125 after the injection of ^{125}I , appeared to be reduced, and equal on the average to 10 - 12 sec., instead of 7 - 11 sec. as normally. The O_2 content in the arterial and venous blood and their difference was reduced. In severe cases of hypoxia a sharp drop in O_2 in the arterial and venous blood was observed. The glucose content in the blood decreased and in the brain with severe hypoxia it decreased. The lactic and pyruvic acids were both in the blood and in the brain. The relation between the lactic and pyruvic acids in the brain sharply moved in the direction of lactic acid formation. --

TUPIKOVA, Z.N.; KORVATSKAYA, A.M.

Glycogen metabolism in the organs of the central nervous system
during the period of the aftereffect of narcotics and stimulants.
Nerv. sist. no.5:10-15 '64. (MIRA 18:3)

1. Laboratoriya obmena veshchestv Leningradskogo gosudarstvennogo
universiteta.

KORVATSKIY, B.G.

Case of chemical burn of the esophagus and stomach. Vrach.delo no.9:
973-975 S '59. (MIRA 13:2)

1. Khirurgicheskoye otdeleniye Pervoy podol'skoy bol'nitsy g. Kiyeva
(nauchnyy rukovoditel' raboty - zaslushennyy deyatel' nauki, prof.
A.K. Gorchakov).

(ALIMENTARY CANAL--BURNS AND SCALDS)

SKRIPNICHENKO, D.F., prof.; KORVATSKIY, B.G.

Use of protein preparations in a compound treatment of
thyrotoxicosis. Vrach. delo no.12:40-42 D '63.

(MIRA 17:2)

1. Kafedra khirurgii (zav. - prof. D.F. Skripnichenko)
stomatologicheskogo fakul'teta Kiyevskogo meditsinskogo
instituta.

PAVLOVSKIY, D.P.; KORVATSKIY, B.G.

Functional state of the coagulating, anticoagulating and fibrinolytic system of the blood in thyrotoxicosis. Vrach. delo no.12:46-50 D '63. (MIRA 17:2)

1. Kafedra khirurgii (zav. - prof. D.F. Skripnichenko) stomatologicheskogo fakul'teta Kiyevskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825010016-8
Teas.

ABE Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6427

Author : Korvatskiy, D. A.
Inst : Dagestan Scientific-Res. Institute of Agriculture

Title : The Effect of the Water-Salt Level in the Soil on the Rootstocks of the Mazzard Cherry Tree

Orig Pub : Byul. nauchno-tekhn. inform. Dagestansk. n.-1. in-ta s.-kh., 1957, No 1, 5-8

Abstract : Observations on Mazzard cherry tree (Prunus avium) plantings, conducted in southern Dagestan, showed that the cultivated cherry tree, grafted on the wild one, produces tall and long lasting trees. They produce high yields,

AKIMOV, Anatoliy Andreyevich; KURVYAKOV, N.Ye., red.

[Basic conditions for soil compaction by electro-silicification] Osnovnye polezhenia po ukreplenii gruntov elektro-silikatizatsiei. Rostov-na-Donu, Nauchno-issl. issl po stroitel'stvu v g. Rostove-na-Donu, 1963. 30 p.
(MIRA 18:7)

KORWIN, M.

A present weak point in the service of industrial safety. p. 181.

OCHRONA PRACY; BEZPIECZENSTWO I HIGIENA PRACY, Warszawa, Vol. 9, no. 6, June 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

KORWIN, M.

Mimeographed textbooks and lectures. p. 255

OCHRONA PRACY: BEZPIECZENSTWO I HIGIENA PRACY.

Warszawa

Vol 9, no. 8 August 1955

SOURCE: East European Accessions List (EEAL) IC Vol 5, no. 3 March 1956

POLAND

KORWIN-PAWLOWSKI, Michal

Dept. of Electronics, Institute for Basic Technical Problems, Polish
Academy of Sciences (Zaklad Elektroniki IPPT-PAN)

Warsaw, Przeglad elektroniki, No 8, August 1966, pp 365-75

"Metal semiconductor diodes."

KORWIN, M.

Industrial safety and hygiene of a driver. p. 150.

MOTORYZACJA. Warszawa. Vol. 10, no. 5, May 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956.

KORVIN, M.

Three-year balance sheet of industrial safety and hygiene. p.10
(OCHRONA PRACY; BEZPIECZENSTWO I HIGIENA PRACY, Vol. 12, No. 6, June 1957, Warsaw, Poland)

SO: Monthly List of East European Accessions (EFAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

KORWIN, M.

Planned circulation in the plant as an element of improving the conditions of industrial safety and hygiene. p. 20.

OCHRONA PRACY. (Centralna Rada Zwiadowych i Dentrálny Instytut
Ochrony Pracy. Warszawa, Poland. Vol 14, no. 3, Mar. 1959.

Monthly list of East European Accessions (EEAI) LC, vol. 8, no. 8, Aug. 1959.

Uncl.

KORWOWSKI, J.

Fluorospirography and roentgenological and phtoelectronic
determination of pulmonary ventilation. Pol. arch. med.
wewnet. 35 no.8:1171-1177 ' 65.

Kory, M.

ICE, S. ✓
Winkler (in copy) Given Name

2

Country: Rumania

Academic Degree: Dr.

Affiliation: *)

Source: Bucharest, Pharmacia, No 5, May 61, pp 291-294.

Data: "Pharmacodynamic Investigations with Regard to Absorption of
Drugs from Suppositories Containing Cocoa Butter Excipient
Depending on the Binding Agent Used."

Co-author:

Kory, K. ✓

*) Work Performed at the Department of Pharmacodynamics of the
Medico-Pharmaceutical Institute (Catedra de Farmacodinamie,
Institutul Medico-Farmaceutic), Cluj.

ROMANIA

POP, S., Lecturer; HOLAN, T., Lecturer; CIOCANELEA, V., Professor;
POGINGEANU, P.; URAY, Z.; KORY, M.; BAN, I.

Laboratory of Pharmacodynamics, Nuclear Medicine, Galenic
Pharmacy, Institute of Medicine and Pharmacy, Cluj.
(Laboratorul de farmacodinamie, Medicina nucleara,
Farmacie galenica, I.M.F. Cluj) - (for all)

Bucharest, Farmacia, No 4, Apr 63, pp 203-207.

"Absorption of Labelled Sodium Iodide (I^{131}) Via the
Rectal Mucosa."

(7)

KORYCANSKY, Oldrich, inz.

Tasks of the technical control in municipal transport enterprises. Siln doprava 11 no. 12: 6-7 D '63.

1. Dopravni podnik hlavniho mesta Prahy.

KORYAGIN, A.

The building of communism and the housing question. Vop. ekon.
no.6:30-40 Je '62. (MIRA 15:6)

(Housing)

KORYAGIN, A., kand.ekonomicheskikh nauk

Productive forces and production relations during the large-scale
building of communism. Komm.Vooruzh.Sil 1 no.2:43-51 Ja '61.
(Communism) (Economics) (MIRA 14:8)

KORYAGIN, A., komandir podrazdeleniya (g.Aldan)

In the clouds. Grazhd. av. 21 no.7:21-22 J1 '64.

(MIRA 18:4)

KORYAKIN, A.G.

In the Karelian State Testing Laboratory. Standartizatsiia 29
no.3:54-55 Mr '65. (MIRA 18:5)

1. Nachal'nik Karel'skoy gosudarstvennoy kontrol'noy laboratorii.

KORYAGIN, A.G.
KORYAGIN, Aleksandr Georgiyevich; KONAKOV, D.M., red.; NAUMOV, K.M., tekhn.red.

[Socialist reproduction] Sotsialisticheskoe vosproizvodstvo. Moskva,
Vysshaya partiinaya shkola, 1957. 61 p. (MIRA 11:2)
(Russia--Economic conditions)

KORYAGIN, Aleksandr Georgiyevich; GREBTSOV, P.P., red.; DEYEVA, V.M.,
tekhn.red.

[Increasing investment in socialist agriculture] Vosprouiz-
vodstvo v sotsialisticheskoy sel'skoy khoziaistve. Moskva, Gos.
izd-vo sel'khoz.lit-ry. 1960. 174 p. (MIRA 13:10)
(Agriculture)

AGAPOV, D.S.; ARTIBILOV, B.M.; VIKTOROV, A.M.; GINTS, A.N.; GOR'KOV, A.V.;
 GUSYATINSKIY, M.A.; KARPOV, A.S.; KOLOT, I.I.; KOMAREVSKIY, V.T.;
 KORYAGIN, A.I.; KRIYSKIY, M.N.; KRAYNOV, A.G.; NESTEROVA, I.N.;
 OBES, I.S., kandidat tekhnicheskikh nauk; SOSNOVIKOV, K.S.; SUKHOT-
 SKIY, S.P.; CHLENOV, G.O.; YUSOV, S.K.; ZHUK, S.Ya., akademik, glavnyy
 redaktor; KOSTROV, I.N., redaktor; BARONENKOV, A.V., professor,
 doktor tekhnicheskikh nauk, redaktor; KIRZHNER, D.M., professor,
 doktor tekhnicheskikh nauk, redaktor; SHESHKO, Ye.F., professor, doktor
 tekhnicheskikh nauk, redaktor; AVERIN, N.D., inzhener, redaktor
 [deceased]; GOR'KOV, A.V., inzhener, redaktor; KOMAREVSKIY, V.T.,
 inzhener, redaktor; ROGOVSKIY, L.V., inzhener, redaktor; SHAPOVALOV,
 T.I., inzhener, redaktor; RUSSO, G.A., kandidat tekhnicheskikh nauk,
 redaktor; FILIMONOV, N.A., inzhener, redaktor; VOLKOV, L.N., inzhener,
 redaktor; GRISHIN, M.M., professor, doktor tekhnicheskikh nauk, redak-
 tor; ZHURIN, V.D., professor, doktor tekhnicheskikh nauk, redaktor;
 LIKHACHEV, V.P., inzhener, redaktor; MEDVEDEV, V.M., kandidat tekhnicheskikh nauk, redaktor;
 MIKHAYLOV, A.V., kandidat tekhnicheskikh nauk, redaktor; PETROV, G.D., inzhener, redaktor; RAZIN, N.V., redaktor;
 SOBOLEV, V.P., inzhener, redaktor; PERINGER, B.P., inzhener, redaktor;
 TSYPLAKOV, V.D., inzhener, redaktor; ISAYEV, N.V., redaktor; TISTROVA,
 O.N., redaktor; SKVORTSOV, I.M., tekhnicheskii redaktor

[The Volga-Don Canal; technical report on the construction of the
 Volga-Don Canal, the TSimlyanskaya hydro development and irrigation
 works (1949-1952); in five volumes] Volgo-Don; tekhnicheskii otchet
 (continued on next card)

AGAPOV, D.S. --- (continued) Card 2.

o stroitel'stve Volgo-Donskogo sudokhodnogo kanala imeni V.I.Lenina.
TSimlanskogo gidrousla i orositel'nykh sooruzhenii (1949-1952) v
piati tomakh. Glav.red. S.IA. Zhuk. Moskva, Gos.energ. izd-vo.
Vol.5. [Quarry management] Kar'ernoie khoziaistvo. Red.toma I.N.
Kostrov. 1956. 172 p. (MLRA 10:4)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsii. Byuro
tekhnicheskogo otcheta o stroitel'stve Volgo-Dona. 2. Deystvitel'nyy
cheln Akademii stroitel'stva, i arkhitektury SSSR (for Razin)
(Quarries and quarrying)

KORYAGIN, A.I., inzhener.

Ways of improving the organisation of quarries. Gidr. strol. 26
no.4:9-11 Ap '57. (MIRA 10:6)

(Quarries and quarrying)

KORYAGIN, A.I., inzh.

Problem of lowering cement consumption in hydraulic construction.
Gidr.stroi. 26 no.9:19-21 S '57. (MIRA 10:10)
(Concrete construction)

INDEXED BY:

1. ALEKSANDROV, N. P.: KORYAGIN, A. N.
2. USSR (600)
4. Irrigation farming
7. Problem of a movable irrigation system.
Sov. agron., 10 No.11, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

ALEKSANDROV, N.P., kandidat sel'skokhozyaystvennykh nauk; KORYAGIN, A.N.,
Inzhener.

Irrigation of crops on the land of the Dokuchaev Agricultural
Institute. Gidr. i mel. 8 no.5:3-13 My '56. (MLRA 9:8)
(Irrigation farming)

PORTAGIN, A. N.

1a(10)
 AUTHORE: Sharov, N.A., Engineer
 TITLE: Conference on Problems of Crop Irrigation Mechanization in the USSR
 PERIODICAL: Gidrotekhnika i melioratsiya, 1959, Nr 6, pp 61-64, (USSR)

ABSTRACT:
 The article describes the Conference on Problems of Crop Irrigation Mechanization in the USSR called by the Ministry of Agriculture of the USSR and held in Moscow from March 18 to 22, 1959. The conference was dedicated to problems of mechanizing the following organizations were represented in it: research institutes, water economy corporations, institutions of higher learning, special design offices, planning organizations, industrial enterprises from the Uzbek, Ukrainian, Azerbaydhan, Georgian, Kirgiz, Kazakh, Turkmen, and the Moldavian SSR, the RSFSR, as well as the Gosudarstvennyy Nauchno-tekhnicheskiy komitet pri Sovetskom Ministre SSSR (State Scientific and Technical Committee Attached to the Ministers Council of the USSR), the Giprovdokhos, and the Ministerstvo sel'skogo khozyaystva SSSR (Ministry of Agriculture of the USSR). In all, the conference was attended by more than 100 specialists and representatives of at least 55 organizations. The conference discussed its past developments summed up and made several decisions to promote irrigation mechanization. The following persons were mentioned there: A.V. Kramchenko, Director of the VASKHOM, made an introductory speech; G.P. Rechetov, Senior Engineer of the Upravleniye novoy tekhniki i ispytaniya mashin MSH SSSR (New Equipment and Machinery

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Testing Administration of the MSH USSR), lectured on "The Working Condition and Work Outlook for the Creation of New Machines"; VASKHOM, Candidate of Agricultural Sciences B.M. Yabder, "VASKHOM's Scientific Institute's Laboratory work"; Candidate of Technical Sciences G.M. Guseyn-Zade, Representative of the ASU, "on sprinkling in the Azerbaydhan SSR"; A.N. Portagin, "on sprinkling in the Georgian SSR"; G.I. Kravtsov, Manager of the Irrigation Engineering Section of the Moskovskaya opytno-issledovatel'skaya stantsiya (Moscow Station for Testing and Research on Sprinkling); "on sprinkling in the Moscow Region"; "on sprinkling in the Republic of the USSR"; "on sprinkling in the Ukraine"; I.P. Ylitte, Senior Scientific Worker and Representative of the Kuzbass, "on sprinkling mechanization"; A.N. Portagin, Scientific Worker of the Institute sel'skoy khovaystva i zemel' dokuchayev, "on the use of mobile irrigation systems in the Central Chernozem Zone"; D.I. Sazonov, Chief of the Magnitogorskaya molochno-ovoshchnyy sovkhos (Milk and Vegetable-Growing Sovkhoz), "on spraying vegetables and potatoes in Southern Ural"; Engineer-Hydrotechnician P.N. Yur'yev - on sprinkling cotton at the Sovkhoz "Pavlovsk-Aral", with an expedition of the GUMIPI doing appraisal work.

Card 3/a

ASSOCIATION: Glavodkhoz MSH SSSR

Card 4/a

USSR-86-61,002

KORYAGIN, A. N., Cand Tech Sci -- (diss) "Distribution sprinkling system and its application in the Central Chernozem belt." Moscow, 1960. 17 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Inst of Water Economy Engineers im V. R. Williams); 150 copies; price not given; (KL, 22-60, 137)

KORYAGIN, A.P.; LABAS, Yu.A.; MIRKIN, A.S.

Use of Hall's e.m.f. transducer in a physiological experiment.
Biul.eksp.biol.i med. 54 no.11:114-118 N '62. (MIRA 15:12)

1. Iz laboratorii fiziologii krovoobrashcheniya (zav. - prof. G.P.Konradi), laboratorii ekologicheskoy fiziologii (zav. - prof. A.D.Slonim) i laboratorii obshchey fiziologii (zav. - akademik V.N.Chernigovskiy) Instituta fiziologii imeni Pavlova (dir. - akademik V.N.Chernigovskiy) AN SSSR. Predstavlena akademikom V.N.Chernigovskim.

(PHYSIOLOGICAL APPARATUS)

KORYAGIN, G.A.

With creative zeal. Avtom., telem. i sviaz' 6 no.6:22-25
Je '62. (MIRA 15:7)

1. Nachal'nik Novosibirskoy upravlencheskoy distantzii svyazi
Zapadno-Sibirskoy dorogi.

(Railroads—Employees)
(Railroads—Electric equipment)

KORYAGIN, G.A.; KRASNOVA, G.S.; PASYNKOVA, Z.T.; MAKHOV, D.S.

Communication workers discuss their work practices. Avtom.,
telem. i svyaz' 9 no.3:28 Mr '65. (MIRA 18:11)

1. Rabotniki Novosibirskoy distantzii Zapadno-Sibirskoy dorogi.

KORYAGIN, I.

SUBBOTA, P.; KORYAGIN, I.; SHUFCHUK, B.

Improve and simplify accounting in the construction industry.

Bukhg.uchet 16 no.3:10-15 Mr '57.

(MLRA 10:5)

(Construction industry--Accounting)

KORYAGIN, I.A., glavnyy zootekhnik

A promising plan for breed work in the district. Zhivotnovodstvo 21
no.2:60-61 F '59. (MIRA 12:3)

1. Inspektsiya po sel'skomu khozyaystvu, Kadoshkinskiy rayon Mordov-
skaya ASSR.
(Kadoshkino District--Stock and stockbreeding)

GUTTSAYT, Z.I.; KRAVCHENKO, V.A.; NIKITIN, N.S.; PANICHEVA, A.G. Prini-
mali uchastiye: GOL'DSHTEYN, R.I.; PANKRATOVA, O.M.; SAGAKSKAYA,
V.G. KORYAGIN, I.D., kand.ekonom.nauk, red.

[Petroleum industry of the capitalist countries of Western
Europe, the Near, Middle, and Far East, Canada, and Latin
America] Neftianaya promyshlennost' kapitalisticheskikh stran
Zapadnoi Evropy, Blizhnego i Srednego Vostoka, Dal'nego Vostoka,
Kanady i Latinskoi Ameriki; kratkii obzor statisticheskikh dannykh.
Pod red. I.D.Koriagina. Moskva, 1959. 302 p.

(MIRA 13:11)

1. Moscow. Gosudarstvennyi nauchno-issledovatel'skiy institut
nauchnoy i tekhnicheskoy informatsii.

(Petroleum industry)

KOKILIN, I. D.

4

LISICHIN, S.M., ZHIGACH, K.F., BORISOV, P.A., CALPERSON, E.B., KORYACIN, I.D.,

Present day status and main development trends of the oil industry in the USSR

Report to be submitted for the Sixth World Petroleum Congress, Frankfurt,
16-26 June 63

KORVAGIN, K. M.																										PROCESSING AND PROPERTY INDEX																									
1345. INTERNAL WATER SOFTENER FOR FIRE-TUBE BOILERS. Mityakov, V. S. and Korvagin, K. M. (Za Ekonomiyu Topliva (Fuel Econ.), 1949, (7), 29-30).																																																			
<p>This is a device for installation inside a Lancashire boiler for softening the water without the use of added chemicals. The feed water enters troughs in the steam space, reaches boiling point and precipitates its dissolved solids. These are then led to a compartment in the bottom of the water-space, from which they are removed by periodic blow-down. (L).</p>																																																			
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			
<p>140000 01 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</p>																																																			

42339 KORYAGI, K. P.

- Avtomat dlya antikoroziynoy obrabotki detaley (Zaved. in Voroshilova). V sb: Opyt novatorov mashinostroyeniya. Kuybyshev, 1948, s. 136-38.

SO: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948.

42340 KORIASHIN, K. P. - Termooobrabotka malouglerodistykh staley na vysokuyu prochnost:
V sb: Opyt novatorov mashinostroyeniya. Kuybyshev, 1948, s 247-51.

SO: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948.

S/129/60/000/012/001/013
E193/E283

AUTHORS: Blanter, M. Ye., Doctor of Technical Sciences,
Koryagin, K. P. and Martishin, O. V., Engineers

TITLE: Low-Carbon Unalloyed Steels as a Substitute for
Certain High-Strength Alloy Steels

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov,
1960, No. 12, pp. 2-7

TEXT: The object of the present investigation was to
explore the possibilities of replacing expensive alloy steels of
the 30XГСА (30KhGSA) type with suitably heat-treated, unalloyed,
low-carbon steels "10" and "15", whose composition is given below.

Steel	Contents of elements in %								
	C	Mn	Si	S	P	Cr	Ni	Cu	Al
10	0.13	0.58	0.27	0.03	0.022	0.07	0.11	0.14	0.053
15	0.16	0.62	0.24	0.032	0.026	0.10	0.13	-	0.026

Card 1/3

S/129/60/000/012/001/013
E193/E293

Low-Carbon Unalloyed Steels as a Substitute for Certain High-Strength Alloy Steels

To this end, the effect of hardening (quenching) temperature, temperature of the quenching medium (8-10% aqueous solution of sodium hydroxide), and tempering temperature on the U.T.S., 0.2% proof stress ($\sigma_{0.2}$), reduction of area (ϕ), elongation (δ), impact strength (a_k), fatigue strength, and microstructure of these steels, was studied, the mechanical tests having been conducted at temperatures varying between 20 and 500°C (-70 and 500°C in the case of a_k). The following conclusions were reached. (1) Increasing the temperature of the quenching medium from 0 to 50°C, brings about a considerable (approximately 70%) increase in a_k of steels 10 and 15, but does not affect any of the other properties. (2) The best combination of mechanical properties is obtained by quenching from 900-930°C and tempering at 300-350°C. Steel 15, tempered at 300°C, had U.T.S. = 120 kg/mm², $\sigma_{0.2}$ = 100 kg/mm², δ = 11%, ϕ = 38%, and a_k = 11 kgm/cm². This treatment also lowered the temperature of the ductile→ brittle transition to below -70°C.

Card 2/3

S/129/60/000/012/001/013
E193/E283

Low-Carbon Unalloyed Steels as a Substitute for Certain High-Strength Alloy Steels

(3) The different response of steels studied to various heat treatments is associated with their different carbon and aluminium contents and reflected in the micro-structure of these steels which is finely crystalline in the case of Steel 10, and coarsely crystalline in the case of Steel 15. (4) Hardened and tempered Steels 10 and 15 display best combination of mechanical properties at temperatures above 300°C. (5) Heat-treated Steels 10 and 15 have U.T.S. equal to, and ϕ , δ , and a_k higher than, those of similarly treated steel 30KhGSA. The fatigue limit of hardened Steel 15 amounts to 41 kg/mm² and is 14% lower than that of steel 30KhGSA. (6) Subject to receiving suitable heat treatment, Steels 10 and 15 can be used in many applications as a substitute for high-strength alloy steels. There are 8 figures, 2 tables and 5 Soviet references.

ASSOCIATION: Vsesoyuznyy zaochnyy mashinostroitel'nyy institut
(All-Union Correspondence Institute of Machine Building)

Card 3/3

S/032/61/027/008/005/020
B107/B206

AUTHORS: Blanter, M. Ye., Koryagin, K. P., Martishyn, O. V., and Galov, A. G.

TITLE: A method for the determination of the hardenability of a steel with reduced hardenability

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 8, 1961, 978-980

TEXT: A method for determining the hardenability of low-carbon steels (0.1-0.2 % C) was elaborated. The two types used were Cr σ 13 (Stal' 3) and Cr σ 15 (Stal' 15). The specimens were not of the usual L shape, but had the shape of a truncated cone (90 mm high, lower diameter 25 mm, upper diameter 5 mm). After quenching from 900°C in 8-15 % NaOH, the specimens were cut in half along the axis and polished, and the Vickers hardness was then determined along the axis. Its variation along the axis is approximately given by the equations $H_V = 376 - 5.7x + 0.035x^2$ (for steel 15) and $H_V = 380 - 3.7x + 0.02x^2$ (for steel 3), respectively. H_V is the Vickers hardness, and x is the distance from the upper end of the truncated

Card 1/3

A method for...

S/032/61/027/008/005/020
B107/B206

cone. Cylinders with a diameter of 8-20 mm and a height-to-diameter ratio of 4 were cut from the same steels. After quenching, the cylinders were cut perpendicular to the axis, and the radial change of the Vickers hardness was investigated. It follows the equation $H_V = A + Bx_1^2$. x_1 is the distance from the cylinder center; A and B are coefficients (see Table). From the relations mentioned it is possible to calculate the values of x and x_1 for which the rate of cooling is equal. It is thus possible to calculate the hardness of a cylinder by determining the hardness on a conical specimen. The relation holds for any steel, since the criterion of equal hardness virtually corresponds to the same rate of cooling. A nomograph was drawn for the relation (Fig.). An example is calculated to illustrate the mode of operation. There are 5 figures, 2 tables, and 2 Soviet references.

ASSOCIATION: Vsesoyuznyy zaochnyy mashinostroitel'nyy institut (All-Union Machinery Correspondence Institute)

Card 2/3

KORYAGIN, K.V.; MAKSIMOVA, L.N.

Substituting emulsions for sizing mixtures. Tekst. prom.
20 no. 11:66-67 N '60. (MIRA 13:12)

1. Master fabriki imeni Krasina (for Koryagin).
(Flax) (Sizing (Textile))

KORYAGIN, L.S.; RESHKO, L.B.

Fight for a lofty title. Priborostroenie no.5:27-28 My '61.

(MIRA 14:5)

(Moscow--Clockmaking and watchmaking)

KORYAGIN, N.; RUDNITSKIY, M.; SUCHILIN, A.

Progressive forms of labor organization in mines of the metallurgical
industry. Sots.trud. no.1:60-64 Ja '57. (MLRA 10:4)
(Mines and mineral resources)

L 3496-66 ENT(m)/EPF(c)/EMA(d)/T/ENP(t)/ENP(k)/ENP(z)/ENP(b)/ENA(c) JD/IM/DJ

ACCESSION NR: AP5024864

UR/0136/65/000/010/0083/0086
669.2/.8:621.771.2

AUTHOR: Pavlov, I.M.; Koryagin, N.I.
49.55 49.55

TITLE: Natural conditions of roll bite during the rolling of multilayer metals
46.55 18

SOURCE: Tsvetnyye metally, no. 10, 1965, 83-86

TOPIC TAGS: metal rolling, metal friction, friction coefficient

ABSTRACT: Roll bite requires that the horizontal friction force exceed the force resisting the entry of metal in between the rolls. For metals whose surface in contact with the rolls have identical friction coefficients this can be described by a relatively simple formula, but for multi-layer metals a special formula is required; such a formula is derived by the author:

$$\frac{f_1 + f_2}{2} \geq \tan \alpha$$

(1)

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L 3496-66

ACCESSION NR: AP5024864

where f_1 is the friction coefficient of one metal surface, f_2 is the friction coefficient of the other metal surface, and α is the angle of bite. On this basis, it is shown that in the rolling of multilayer packets with contact surfaces having different friction coefficients, the maximum bite angle of the packet is roughly determined by the expression

$$\tan \frac{\beta_1 + \beta_2}{2} \approx \tan \alpha \quad (2)$$

where β_1, β_2 are the friction angles. Or, on replacing the friction angles with the maximum bite angles, we have

$$\frac{\alpha_1 + \alpha_2}{2} \approx \alpha \quad (3)$$

It is further shown that in the case of a multilayer-metal billet, roll bite does not necessarily require the application of an external push. This is documented by

Card 2/4

L 3496-66

ACCESSION NR: AP5024864

experiments with the cold rolling of two-layer (layers of 3 mm each) billets measuring $3 \times 375 \times 375$, with reduction of area from 6 to 2.5 mm, i.e., with a bite angle of $6^\circ 10'$, by the following procedure: with the rolls halted, the billets were placed in a position ready for bite (a), whereupon the rolls were put in motion and roll bite took place (b) (see Fig. 1 of the Enclosure). This experiment shows that it is sufficient for the layers of the metal to come into contact with the rolls in order to immediately generate the force R sufficient to form a friction force capable of entraining the billet into the zone of deformation without the application of an external push. The second part of the experiments pertained to the determination of bite angles during the hot, cold, and combined hot-cold rolling of two- and multi-layer metals with the rolls treated with different solutions or lubricants. The findings confirmed the validity of formula (3), i.e., the maximum bite angle of a multilayer packet with different friction coefficients of the packet's components is determined with sufficient accuracy according to their respective bite angles. Orig. art. has: 1 figure, and 5 formulas.

ASSOCIATION: none

SUBMITTED: 00

NO REF SOV: 007

ENCL: 01

OTHER: 000

SUB CODE: MM, IE

Card 3/4

L 3496-66

ACCESSION NR: AP5024864

ENCLOSURE: 01

0

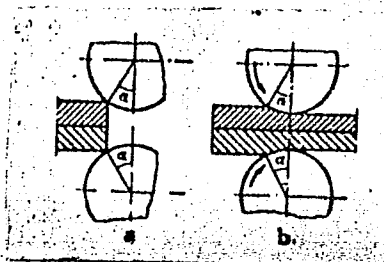


Fig. 1. Roll bite in the case of multilayer packet without the application of an external push

Card 4/4

KORYAGIN, N.I.; PAVLOV, I.G.

Analyzing the conditions of gripping during the rolling of a
multilayer flat peck with a stepped front end. TSvet.met. 38
no.3:76-80 Mr '65.

(MIRA 18:6)

ZIL'BERBLAT, Ya.B.; KORYAGIN, V.G.; KORYAGIN, O.G.

Fluorescent lighting of double-unit trolley buses. Gor.khoz.
Mosk. 34 no.7:36-38 JI '60. (MIRA 13:7)

1. Akademiya kommunal'nogo khozyaystva.
(Trolley buses) (Fluorescent lighting)

KAPELLER, G.V., inzh.; KORYAGIN, O.G., inzh.

Luminescent lighting in trolleybuses. Nov.tekh.zhil.-kcm.khoz.:
Gor.dor.-most.khoz.i transp. no.3:65-71 '63.

(MIRA 17:10)

ПОСМОТРЕТЬ. ...

Outdoor lighting systems in foreign countries. Design-kanika
10 no.11:25-27 N 164. (MIRA 17:12)

1. Akademiya komsomol'nogo khozyaystva imeni A.I. Pustilova.

KORYAGIN, O.G., inzh.

New types of light fixtures for municipal street lighting. Nov.
tekh. zhil-kom.khoz.: Elek. i tepl. gor. no.5:52-62 '61.
(MIRA 18:9)

EWG(v)/EWG(s)-2/EWT(1)/T-2 Pe-5/Pw-4 JWA
ACCESSION NR: AP5000089 S/0317/64/000/009/0030/0033

AUTHOR: Koryagin, V. (Captain)

TITLE: The packing of multiple canopy systems

SOURCE: Tekhnika i vooruzheniye, no. 9, 1964, 30-33

TOPIC TAGS: parachute landing, parachute canopy, parachute brake canopy, parachute packing

ABSTRACT: The success of a parachute landing is largely determined by the proper packing of a multiple canopy parachute system. A parachute unit is usually divided into groups of 5-6 men, each group working with one canopy. The entire packing operation is carried out in six stages. In the first stage, the trainees remove the parachute from the carrying bag, spread it on special tables and inspect it. This is followed by an inspection of the parachute accessories, such as the brake canopy, straps, valves, nuts and bolts. The proper methods of packing, stacking and securing the parachutes are dealt with in stages two, three, four and five. The final operation, in which the packed parachute is covered with a cover, strapped, tied and placed in the proper position, is performed

Card 1/2

L 25130-65

ACCESSION NR: AP5000089

in the sixth stage. The parachute is then inspected by a superior officer. Orig.
art. has: 2 figures.

ASSOCIATION: Notes

SUBMITTED: 00

ENCL: 00

SUB CODE: A1

NO REF SOV: 000

OTHER: 000

Card 2/2

ACCESSION NR: AP4013498

S/0181/64/006/002/0422/0423

AUTHORS: Koryagin, V. E.; Grechushnikov, B. N.

TITLE: The EPR spectrum of the positive trivalent chromium ion in a pseudocubical field

SOURCE: Fizika tverdogo tela, v. 6, no. 2, 1964, 422-423

TOPIC TAGS: electron paramagnetic resonance, chromium, cubic crystal, block structure, EPR spectrum

ABSTRACT: This study was made on a crystal of ScF_3 , which has pseudocubic (orthorhombic) symmetry and belongs to the space group $D_3^7-R 32$. In observing the EPR spectrum, a very small initial splitting was observed at $D < 11$ oersteds, determined by a g factor of 1.967 ± 0.001 . The EPR spectrum of the Cr^{3+} ion in a crystal of ScF_3 is shown in Fig. 1 on the Enclosure. More precise determination of the constant D is difficult because of block structure in the crystal. Since

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ACCESSION NR: AP4013498

the radius of the Cr^{3+} ion is much smaller than the radius of the Sc^{3+} ion, it is difficult to obtain crystals of ScF_3 with high concentrations of impurities. When the Cr^{3+} concentration is high, block structure is strongly developed, and Cr^{3+} occurs chiefly on the boundaries of the blocks. Hyperfine structure from ^{53}Cr was observed in the EPR spectrum for $A \sim 13$ oersteds, which agrees with the constant of hyperfine splitting of the Cr^{3+} ion in other crystals. Orig. art. has: 1 figure and 4 formulas.

ASSOCIATION: Institut kristallografii AN SSSR, Moscow (Institute of Crystallography AN SSSR)

SUBMITTED: 29Jul63

DATE ACQ: 03Mar64

ENCL: 01

SUB CODE: NP, SS

NO REF SOV: 001

OTHER: 002

Card 2/3

ACCESSION NR: AP4013498

ENCLOSURE: 01

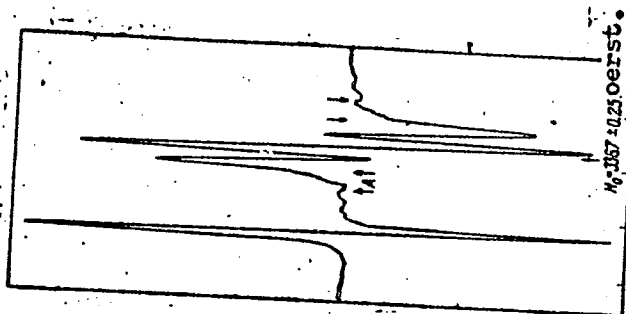


Fig. 1. EPR spectrum of the Cr^{3+} ion in a crystal of ScF_3 . The single line belongs to the free radical; $g = 2.0036$.

Card 3/3

POVOLOTSKIY, M.Ye., inzh.; KORYAGIN, V.F., inzh.; BROVKIN, S.D., inzh.

Special features in the design of large explosionproof short-circuited asynchronous motors. Elektrotehnika 35 no.11:52-54
N '64. (MIRA 18:6)

L 23157-66 EWT(m)/EWP(t) IJP(c) JD
 ACC NR: AP0006848 SOURCE CODE: UR/0101/66/008/002/0565/0567
 AUTHOR: Koryagin, V. F.; Grechushnikov, B. N. 41
 39B
 ORG: Institute of Crystallography, AN SSSR, Moscow (Institut r stallografi AN SSSR)
 TITLE: Ultrahyperfine structure in the electron paramagnetic resonance spectrum of
 the bivalent manganese ion in crystals of aluminum trichloride hexahydrate
 SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 565-567
 TOPIC TAGS: aluminum chloride, manganese, EPR spectrum, crystal property, hyper-
 fine structure, spectral line, Hamiltonian
 ABSTRACT: The authors study the EPR spectrum of the Mn^{2+} ion in $AlCl_3 \cdot 6H_2O$ crys-
 tals. The spectra were studied on RE1301 and JES-3B radio spectrometers with high
 frequency modulation at room temperature. The spectra showed the characteristic
 lines for the bivalent manganese ion. The amplitudes of the lines for the various
 groups are in the approximate ratio 5:8:9:8:5. The spectrum extends 1620 oersteds
 for fields parallel to the z axis and 1076 oersteds for fields perpendicular to the
 z axis. The width of the lines is of the order of 2-3 oersteds for parallel orien-

Card 1/2

L 23157-66

ACC NR: AP6006848

2

tation and somewhat greater for perpendicular orientation. An additional ultrahyperfine structure is observed on most of the lines consisting of two components which show less broadening in the perpendicular spectrum. The spectrum is interpreted by a spin Hamiltonian for the axial intracrystalline electric field. The values of the constants in this spin Hamiltonian are given. The difference between calculated and experimental resonance values for the field in the spectrum is no more than 2 oersteds. Satellite lines at distances of 9.5 ± 0.2 oersteds from each other are observed on the lines for $3/2$, $1/2$ and $-1/2$ transitions. These lines may be due to ultrahyperfine interaction between the manganese ions and the adjacent water protons. The authors consider it their pleasant duty to thank I. I. Antipova-karatayeva and Yu. I. Kutsenko for graciously furnishing the crystals used in this study. Orig. art. has: 1 figure.

SUB CODE: 20/

SUBM DATE: 12Jul65/

ORIG REF: 003/

OTH REF: 002

Card 2/2

L 6328-66 EWT(1)/EWT(m)/EPF(c)/EWP(t)/EWP(b) IFP(c) JD/WW/JG/QQ
 ACCESSION NR: AP5019870 UR/0181/65/007/008/2496/2498

AUTHOR: Koryagin, V. F.; Grechushnikov, B. N. 5, 44

TITLE: Electron paramagnetic resonance of atomic hydrogen in beryllium

SOURCE: Fizika tverdogo tela, v. 7, no. 8, 1965, 2496-2498

TOPIC TAGS: beryllium, x ray irradiation, hydrogen, EPR spectrum, hyperfine structure, spectral line 34

ABSTRACT: Beryllium crystals (vorobyevite and rosterite) were exposed to x rays for 3--6 hours. The EPR spectrum following the exposure had two narrow lines of width $\Delta H = 1.2$ Oe spaced approximately 500 Oe apart. The lines had no angular dependence, and their amplitude increased linearly with the radiation dose up to $\sim 10^6$ roentgen, after which saturation set in. These lines are interpreted as the spectrum belonging to atomic hydrogen. To check that these lines are not connected with the hydrogen adsorbed on the surface, the samples were heated to different temperatures. The EPR spectra were measured with RE13-01 and JES-3B radiospectrometers at 290 and 77K. The results were the same for all temperatures up to about 1100C, at which the beryllium became completely dehydrated, and the EPR signal disappeared. Hydration or deuteration of the dehydrated beryllium with water or D₂O

Card 1/2

L 6328-66

ACCESSION NR: AP5019870

6

at 550C and ~300 atm restored the EPR spectrum due to the atomic hydrogen or atomic deuterium (the latter had three lines with a width on the order of 1 Oe and a splitting of 156 Oe). The constants of the spin Hamiltonian were found to be $g = 2.00265 \pm 0.00005$ and $B = 1004.7 \pm 0.2$ Oe, in good agreement with the known values for free hydrogen. The EPR exhibited a hyperfine structure, which is found to be due to sodium ions in the beryllium structural channels. "The authors thank N. V. Belov⁴⁴ for suggesting the topic and for useful discussions." Orig. art. has: 3 figures and 3 formulas.

ASSOCIATION: Institut kristallografi AN SSSR, Moscow (Institute of Crystallography AN SESR)_{55, 44}

SUBMITTED: 27Mar65

ENCL: 00

SUB CODE: NP

NR REF SOV: 002

OTHER: 003

nw

Card 2/2

L 9249-66 ENT(1)/ENT(m)/EPT(n)-2/ENP(j)/I/ENP(t)/ENP(D) LJP(C) JFY(M) JZY(N)

ACC NR: AP5022710

SOURCE CODE: UR/0181/65/007/008/2712/2716

AUTHOR: Antipova-Karatayeva, I. I.; Grechushnikov, B. N.; Koryagin, V. F.; Kutsenko, Yu. I.

ORG: Institute of Crystallography AN SSSR (Institut kristallografii AN SSSR);
Institute of Geochemistry and Analytical Chemistry AN SSSR, Moscow (Institut geokhimi
i analiticheskoy khimii AN SSSR)TITLE: Spectra of trivalent chromium complexes in crystals of $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$

SOURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2712-2716

TOPIC TAGS: aluminum chloride, spectrum analysis, EPR spectrum, crystal theory,
crystal optic property

ABSTRACT: The authors study crystals of $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$ with an isomorphic impurity of trivalent chromium to determine the mechanism responsible for binding of an impurity ion in the surrounding crystal lattice. The crystals were grown from solutions containing aluminum chloride and chromium chloride. The specimens were studied by spectrophotometry in the visible and ultraviolet regions, and by electron paramagnetic resonance. The preparation of the specimens and equipment used in making the measurements are briefly described. A model is given for the energy levels of a Cr^{3+} ion in crystal fields of various symmetry. The absorption spectra of all crystals in polarized

Card 1/2

L 9249-66

ACC NR: AP5022710

ed light showed two wide bands in the visible region and one in the ultraviolet. The spectral parameters Δ and K were determined, where Δ is the energy difference between the ${}^4A_{2g}$ and ${}^4T_{2g}$ levels, and K is the value of splitting of the ${}^4T_{2g}$ and ${}^4T_{1g}$ levels in an axial field. The constant of spin-orbital interaction λ was also determined from the spectral measurements. The results are tabulated. The parameters of the electron paramagnetic resonance spectra for the various crystals studied are given. It is found that binding of the impurity ion in this type of crystal is determined both by the lattice structure and by the state of the ion in the mother liquor. Further research on this problem is recommended. Orig. art. has: 3 figures, 3 tables.

SUB CODE: 20,07/

SUBM DATE: 27Mar65/

ORIG REF: 001/

OTH REF: 004

Card 2/2 pw

GRECHUSHNIKOV, V.N.; KORYAGIN, V.F.

Paramagnetic resonance of Mn^{2+} ions in synthetic $CdCO_3$. Fiz.
tver. tela 7 no.10:3123-3126 O '65. (MIRA 18:11)

1. Institut kristallografii AN SSSR, Moskva.

Korotkiy, V. G. (Grad stud)

Dissertation: "Questions of Increasing the Effectiveness of Using Compound-Excitation Motors on the Rolling Stock of Municipal Electric Transport." Eng Tech Sci, Academy of Communal Economy Imeni K. D. Pavlov, 21 Jun 54. (Vostochnaya Moskva, Moscow, 11 Jun 54)

SO: SOU 318, 23 Dec 1954

KORYAGIN V.G.

ZIL'BERBIAT, Ya.B., kandidat tekhnicheskikh nauk; KORYAGIN, V.G., kandidat tekhnicheskikh nauk.

Experience using fluorescent lamps for municipal street lighting.
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